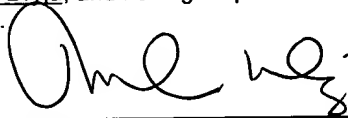


## ABSTRACT OF THE DISCLOSURE

Ambient calculus-based modal logic model checking is disclosed. In one embodiment, a method receives a process for analysis against a formula, and outputs whether it satisfies the formula. In one embodiment, process analysis is conducted in a recursive manner. The process is normalized to determine whether the process comprises a single element. The process is partitioned to determine whether each component satisfies the formula. A plurality of names of the process is determined, and it is verified that a name exists for the formula that is unequal to any of the plurality. Each process sublocation is analyzed, as well as the spatial process reach.

10

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to addressee" service under 37 CFR § 1.10 in an envelope addressed to The Assistant Commissioner for Patents, Washington, DC 20231, on Oct 29, 1999, by Michael Dryja, and having "express mail" mailing label no. EJ243665405US.



Signature of Michael Dryja